

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 08078369
PUBLICATION DATE : 22-03-96

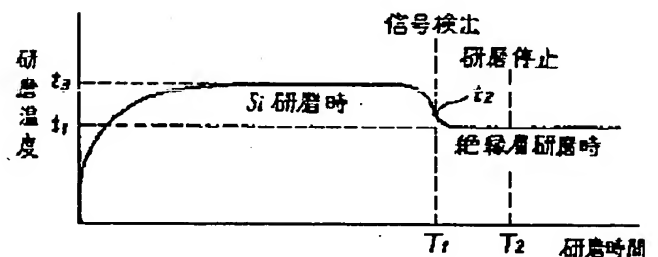
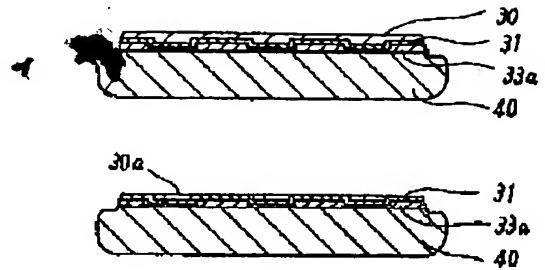
APPLICATION DATE : 06-09-94
APPLICATION NUMBER : 06212836

APPLICANT : SONY CORP;

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INT.CL. : H01L 21/304 B24B 49/14

TITLE : POLISHING END POINT DETECTING METHOD AND ITS POLISHING APPARATUS



ABSTRACT : PURPOSE: To detect the end point of polishing at a high accuracy when a substrate having material layers different in friction coefficient is polished wherein the polishing temp. change is detected to automatically end the polishing at the time when a specified polishing temp. is reached.

CONSTITUTION: A clad SOI wafer is set in a polisher so as to polish its Si substrate face 30. When the polishing of this face begins, the polishing temp. rises to t_3 in the lapse of the polishing time and becomes stable at that temperature. When an SiO_2 face 31 begins to appear from the face 30 during polishing, the polishing temp. begins going down and becomes stable when the entire face 31 appears. A signal of the polishing time T_1 required for changing to a polishing temp. t_2 from t_3 ; t_2 being set during reducing of t_3 to t_1 . Since this signal of the time T_1 is provided in the midway that the entire wafer changes from the face 30 to the face 31, the polishing automatically ends at a time T_2 taken with an allowance from changing the entire face to the SiO_2 face 31.

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